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**ABSTRACT**

A fiber optic sensor system permits multiple parameters to be sensed using a  
5 single sensor. In a described embodiment, a method of sensing multiple parameters  
is provided in which an interferometric fiber optic sensor is connected to a variable  
wavelength light source. Light is transmitted from the light source through the  
sensor, with the light being swept over a range of wavelengths to measure relatively  
low frequency signals, and the light being maintained at a constant wavelength to  
10 measure relatively high frequency signals.